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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/684,742	10/04/2000	David C. Gelvin	21200-711	1719
21971	7590 08/20/2004	EXAMINER .		INER .
	NSINI GOODRICH	AVELLINO	JOSEPH E	
650 PAGE MILL ROAD PALO ALTO, CA 943041050		ART UNIT	PAPER NUMBER	
,	,		2143	11
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/684,742	GELVIN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Joseph E. Avellino	2143			
The MAILING DATE of this communication ap	<u> </u>				
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on <u>04 October 2000</u> .					
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-51</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-51</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Gee the attached detailed Office action for a list	. or the certified copies flot recen	ou.			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summar				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail [Date Patent Application (PTO-152)			
3) X Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 4-10	6) Other:	. 2.2.1. (pp.104.1011 (1 1 0-102)			
U.S. Patent and Trademark Office	ction Summary	Part of Paper No./Mail Date			

DETAILED ACTION

1. Claims 1-51 are presented for examination with claims 1, 46, and 48-51 independent.

Specification

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claim 25 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claim 25 recites the limitation "the at least one client computer" in lines 2-3 of the claim. There is insufficient antecedent basis for this limitation in the claim. For examination purposes this will be understood as "the user". Correction is required

Double Patenting

6. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the

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unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 7. Claims 1-51 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-41 of U.S. Patent No. 6,735,630 (Gelvin et al.). Although the conflicting claims are not identical, they are not patentably distinct from each other because limitations stated in the claims do not render two patentably distinct inventions.
- 8. For example, claim 1 of the patent discloses limitations identical to claim 3 of the application with the exception of "providing node information including resource costs and message priority to the plurality of network elements" (col. 77, lines 30-32) instead of merely "providing node resource information" (claim 1). It is inherent that node resource information can constitute message priority and resource costs and therefore is not a patentably distinct invention.
- 9. Claims 2-51 of the application recite variations of the invention and are rejected for similar reasons as stated above.

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Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 5-6, 8, 14-16, 18, 24, 34, 39-41, 43-45, 48, and 49 are rejected under 35 U.S.C. 102(e) as being anticipated by Clare et al. (USPN 6,414,955) (hereinafter Clare).

11. Referring to claim 1, Clare discloses a method for providing a sensor network comprising:

coupling a plurality of network elements (i.e. member nodes) including a plurality of node types (user interface nodes and sensor nodes, see Figure 14, and col. 14, lines 12-34) among at least one environment (it is inherent that in a sensor network there must be an environment since then the sensors will be able to record data regarding their surroundings) and at least one user (user node), wherein the plurality of node types includes at least one node of a first type (user node) and at least one node of a second type (sensor node) (Figure 14; col. 14, lines 12-34);

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remotely controlling at least one function of the plurality of node types (col. 15, lines 13-16);

collecting data from the at least one environment (col. 6, lines 19-21);

providing node resource information (identity, location, communication and interference neighbors, etc.) from the at least one node of a second type to the plurality of network elements (col. 14, lines 12-17);

distributing storage and processing of the collected data among the plurality of network elements in response to the node information (col. 18, lines 35-64).

- 12. Referring to claim 2, Clare discloses performing a first type of data manipulation by the at least one node of a first type (i.e. filters and analyzes the stored data by the sensor node) (col. 18, lines 42-44), and performing a second type of data manipulation by the at least one node of a second type (manipulate the data such that the data is outputted to a user through a display device or audio speaker, etc) (col. 16, lines 4-16).
- 13. Referring to claim 3, Clare discloses automatically organizing the plurality of network elements in response to the node information, wherein the automatic organizing comprising automatically controlling data transfer (i.e. routing data to user terminals), processing (i.e. using user profiles to generate a warning based on sensor data), and storage among the plurality of network elements (storing the data in data buffers (col. 16, lines 17-27; col. 18, lines 35-64).

- 14. Referring to claim 5, Clare discloses controlling data processing using at least one processing hierarchy (i.e. prioritization of messages), the at least one processing hierarchy controlling communications among the plurality of network elements (col. 15, lines 10-24).
- 15. Referring to claim 6, Clare discloses comprising self-assembling the plurality of network elements, wherein search and acquisition modes of the at least one node of a second type search for participating ones of the plurality of network elements, whether each of the participating ones of the plurality of network elements are permitted to join the sensor network using a message hierarchy, wherein the sensor network is surveyed at intervals for new nodes and missing nodes (col. 8, line 49 to col. 10, line 51).
- 16. Referring to claim 8, Clare discloses the at least one function includes data acquisition (i.e. turn sensors to highest alert activity) (col. 15, lines 10-15).
- 17. Referring to claim 14, Clare discloses controlling data processing, transmission, and storage among the plurality of network elements in response to a decision probability of a detected event (i.e. power down for five minutes transmitted to the node from the user) (col. 15, lines 13-15).
- 18. Referring to claim 15, Clare discloses performing processing of the collected data in response to parameters established by a user (col. 18, lines 50-64).

- 19. Referring to claim 16, Clare discloses the processing is performed in response to at least one result of the energy detection (col. 18, lines 50-64).
- 20. Referring to claim 18, Clare discloses the processing comprises selecting at least one data type for processing, selecting at least one processing type, selecting at least one of the plurality of network elements to perform the selected at least one processing type, and transferring the selected at least one data type to the selected at least one of the plurality of network elements using at least one route through the sensor network (col. 18, lines 35-64).
- 21. Referring to claim 19, Clare discloses the selection of at least one processing type comprises determing at least one probability (i.e. decision-making) associated with a detected event (monitored environment settings) and selecting at least one processing type in response to the at least one probability (i.e. if the decision is true, do something different than if the decision is false) (Figure 15; col. 18, lines 35-64).
- 22. Referring to claim 24, Clare discloses the communication mode is wireless communication (e.g. abstract).
- 23. Referring to claim 34, Clare discloses establishing at least one redundant information pathway among the plurality of network elements (Figure 8).

- 24. Referring to claim 39, Clare discloses at least one node of a first type and at lest one node of a second type include at least one sensor selected from a group consisting of seismic, acoustic, infrared, thermal, force, vibration, pressure, humidity, current, voltage, magnetic, biological, chemical, acceleration, and visible light sensors (col. 14, lines 12-34).
- 25. Referring to claim 40, Clare discloses at least one of the plurality of network elements determines a position of at least one other of the plurality of network elements (col. 8, lines 15-25).
- 26. Referring to claim 41, Clare discloses transferring software among the plurality of network elements, wherein the software transfer is remotely controllable (col. 15, lines 10-24).
- 27. Referring to claim 43, Clare discloses determining at least one position of one of the network elements using location information from GPS device (col. 7, line 58 to col. 8, line 6).
- 28. Referring to claim 44, Clare discloses the plurality of node types comprise sensor nodes (e.g. abstract; Figure 14).

29. Referring to claim 45, Clare discloses supporting short range and long rage communications among the plurality of network elements (Figure 1).

30. Claims 48, and 49 are rejected for similar reasons as stated above.

Claim Rejections - 35 USC § 103

- 31. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 32. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 42 is rejected under 35 U.S.C. 103(a) as being unpatentable over Clare in view of Official Notice.

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33. Referring to claim 42, Clare discloses the invention substantively as described in claim 1. Clare does not specifically state protecting communications among the elements using a public key security protocol. "Official Notice" is taken that both the concept and advantages of providing for public key encryption in wireless devices is well known and expected in the art. It would have been obvious to one of ordinary skill in the art to include public key encryption to the system of Clare to provide a basic level of security, thereby reducing the occurrences of eavesdropping by hackers and malcontents.

Claims 4, 17-20, 23, 25-32, 46, 47, 50, and 51, are rejected under 35 U.S.C. 103(a) as being unpatentable over Clare in view of Myer et al. (USPN 6,615,088) (hereinafter Myer).

34. Referring to claim 4, Clare discloses the invention substantively as described in claim 1. Clare does not disclose supporting a plurality of levels of synchronization among different subsets of the plurality of network elements. Myer discloses that the master controller 36 can periodically poll each appliance 37-39 in order to obtain the status of the device (col. 3, lines 15-22). Furthermore, it is well known that polling periods can be user defined to utilize slow status-changing devices (light switches are slow to change status compared to acoustic sensors in a room, thereby requiring a different level of synchronization for the light switch than for the acoustic sensor). By

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this rationale it would have been obvious to one of ordinary skill in the art to modify the teachings of Clare and Myer to provide for multiple levels of synchronization to reduce wasted bandwidth on status updates for devices which have a slow status change interval.

- 35. Referring to claims 17, 20-23, Clare discloses the invention substantively as described in claim 18. Clare does not specifically disclose aggregating data processed in a plurality of nodes for further processing by other nodes. Myer discloses polling devices by the master controller 36 in order to monitor the devices status, which can then be sent to a user interface device for display (the device status reports collected by the master controller 36 must inherently be processed by the client GUI device, or other node, in order for it to be displayable to the user) (col. 3, lines 15-25). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Myer with Clare to facilitate device configuration in a network as supported by Myer (col. 1, lines 26-30).
- 36. Referring to claim 25, Clare discloses the invention substantively as described in claim 1. Clare does not specifically disclose the network includes a gateway, a server, and at least one hybrid wired and wireless network. Myer discloses another sensor network which includes at least one gateway 12, at least one server 25, and at least one hybrid wireless and wired network (Figure 1; col. 2, lines 52-67). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the

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teaching of Myer with Clare to facilitate device configuration in a network as supported by Myer (col. 1, lines 26-30).

- 37. Referring to claim 26, Clare discloses the invention substantively as described in claim 1. Clare does not specifically disclose the network is the Internet. Myer discloses the network is the Internet 22, (Figure 1). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Myer with Clare to facilitate device configuration in a network as supported by Myer (col. 1, lines 26-30).
- 38. Referring to claim 27, Clare discloses the invention substantively as described in claim 1. Clare does not disclose providing remote accessibility using WWW-based tools to data, code, management, and security functions. Myer discloses providing remote accessibility using WWW-based tools to data, code, management, and security functions (Figure 2). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Myer with Clare to facilitate device configuration in a network as supported by Myer (col. 1, lines 26-30).
- 39. Referring to claim 28, Clare discloses the invention substantively as described in claim 1. Clare does not disclose the at least one gateway performs management of communications with at least one remote user. Myer discloses the at least one gateway (control network portal 12) performs management of communications with at least one

remote user (col. 4, lines 28-50). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Myer with Clare to facilitate device configuration in a network as supported by Myer (col. 1, lines 26-30).

- 40. Referring to claim 29, Clare discloses the invention substantively as described in claim 1. Clare does not disclose comprising at least one database separate from the plurality of network elements. Myer discloses comprising at least one database separate from the plurality of network elements (col. 3, lines 45-50). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Myer with Clare to facilitate device configuration in a network as supported by Myer (col. 1, lines 26-30).
- A1. Referring to claim 31, Clare in view of Myer discloses the invention substantively as described in claim 29. Claire further discloses data-driven alerting methods that recognize conditions on user-defined data relationships (i.e. user profiles) including coincidence in signal arrival, node power status, and network communication status (col. 18, lines 35-64).
- 42. Referring to claim 32, Clare in view of Myer discloses the invention substantively as described in claim 29. Although neither Clare nor Myer specifically state implementing the database in a small footprint database and in a SQL database systems at a level of at least one server, it is well known that these features exist and

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would have been obvious to one of ordinary skill in the art to incorporate a small footprint database to the invention of Clare and Myer to provide the productivity and reliability that a SQL database allows, while still keeping information search and retrieval times to a minimum.

43. Claims 30, 46, 47, 50 and 51 are rejected for similar reasons as stated above.

Claims 7, 9-13, 35, and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Clare in view of Humpleman et al. (USPN 6,546,419) (hereinafter Humpleman).

44. Referring to claim 7, Clare discloses the invention substantively as described in claim 1. Clare does not disclose managing the plurality of network elements as a distributed database using a distributed resource management protocol, wherein the plurality of network elements are reused among different applications, wherein the network elements are used in multiple classes of applications. Humpleman discloses managing the plurality of network elements as a distributed database using a distributed resource management protocol, wherein the plurality of network elements are reused among different applications, wherein the network elements are used in multiple classes of applications (the servers and clients can reside on the same node and execute both client and server applications) (col. 6, lines 18-34). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of

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Clare with Humpleman to be able to control a plurality of diverse devices having different capabilities to communicate in order to accomplish tasks or to provide a service as supported by Humpleman (col. 2, lines 38-45).

- 45. Referring to claim 9, Clare discloses the invention substantively as described in claim 1. Clare does not disclose having the node of the first type containing a preprocessor with a state machine, an API and at least one sensor. Humpleman discloses a home sensor network wherein a first node 14 of a first type (Device A) contains a preprocessor with a state machine (it is inherent that a standard microprocessor emulates the effects of a state machine during its pipelining of instructions, fetch, decode, execute, store, etc.), an API (INTERFACE-A.xml), and at least one sensor (h/w) (e.g. abstract; Figure 16; col. 22, lines 52-58). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Clare with Humpleman to be able to control a plurality of diverse devices having different capabilities to communicate in order to accomplish tasks or to provide a service as supported by Humpleman (col. 2, lines 38-45).
- Referring to claim 10, Clare discloses the invention substantively as described in claim 1. Clare does not disclose having the node of the second type including at lest one preprocessor coupled to at lest one processor and a plurality of API's, wherein the plurality of API's are coupled to control at lest one device. Humpleman discloses a home sensor network wherein the node 14 of the second type (device B), contains at

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least one preprocessor coupled to at least one processor (it is well known that a server computer has multiple microprocessors embedded within the server which are either directly or indirectly coupled together), a plurality of API's (INTERFACE-A.XML and INTERFACE-B.XML), wherein the plurality of API's are coupled to control at least one sensor device (i.e. smoke detectors) (e.g. abstract; Figure 16; col. 22, lines 52-58). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Clare with Humpleman to be able to control a plurality of diverse devices having different capabilities to communicate in order to accomplish tasks or to provide a service as supported by Humpleman (col. 2, lines 38-45).

- Referring to claim 11, Clare discloses the invention substantively as described in claim 1. Clare does not disclose layering the plurality of API's. Humpleman discloses layering the plurality of API's in the device (Figure 19, reference characters 72-92). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Clare with Humpleman to be able to control a plurality of diverse devices having different capabilities to communicate in order to accomplish tasks or to provide a service as supported by Humpleman (col. 2, lines 38-45).
- Referring to claim 12, Clare discloses the invention substantively as described in claim 1. Clare further discloses enabling distributed resource management by providing network resource information and message priority information to the plurality of network elements (col. 14, lines 12-34; col. 15, lines 10-25). Clare does not specifically

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disclose enabling distributed resource management through the plurality of API's. However Humpleman discloses using the API's to enable distributed resource management (i.e. enabling services to be used via the API's) (Figures 15-19 and pertinent portions of the disclosure). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Clare with Humpleman to be able to control a plurality of diverse devices having different capabilities to communicate in order to accomplish tasks or to provide a service as supported by Humpleman (col. 2, lines 38-45).

- 49. Referring to claim 13, Clare discloses the preprocessor (ADC) performs data acquisition, and the processor (DSP) performs signal identification (col. 18, lines 35-64).
- 50. Referring to claim 33, Clare discloses the invention substantively as described in claim 1. Clare does not disclose the node of a second type includes sensing, processing, communications, and storage devices supporting a plurality of processing and protocol layers. In analogous art, Humpleman discloses another sensor network wherein nodes include supporting a plurality of processing and protocol layers (col. 14, lines 20-34). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Clare with Humpleman to be able to control a plurality of diverse devices having different capabilities to communicate in order to accomplish tasks or to provide a service as supported by Humpleman (col. 2, lines 38-45).

51. Referring to claims 35 and 36, Clare discloses the invention substantively as described in claim 1. Clare does not disclose a first network having a first node density is assembled using the at least one node of a first type, and a second node having a second node density is assembled using the at least one node of a second type, wherein the second network is overlayed onto the first network. Humpleman discloses a home sensor network wherein numerous sensors relating to different "services" (i.e. HVAC, security, utility, appliances) are overlayed onto another (i.e. they are all connected to one network, however they are considered their separate entities) (col. 22, line 17 to col. 23, line 7). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Clare with Humpleman to be able to control a plurality of diverse devices having different capabilities to communicate in order to accomplish tasks or to provide a service as supported by Humpleman (col. 2, lines 38-45).

Claim 37 is rejected under 35 U.S.C. 103(a) as being unpatentable over Clare in view of Davis et al. (USPN 5,742,829) (hereinafter Davis).

52. Clare discloses the invention substantively as described in claim 1. Clare does not disclose distributing code and data anticipated for future use through the sensor network using low priority messages, wherein the code and the data are downloadable from a storage device. Davis discloses a network wherein distributing code and data

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anticipated for future use through the sensor network using low priority messages (i.e. in the background), wherein the code and the data are downloadable from a storage device (it is inherent that the code/data are downloaded from a storage device) (col. 6, lines 27-65). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Davis with Clare to facilitate the installation of software on heterogeneous clients on the distributed network, thereby reducing installation costs and reducing downtime as supported by Davis (col. 2, lines 10-15).

Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Clare in view of Makansi et al. (US 2002/0154631) (hereinafter Makansi).

Clare discloses the invention substantively as described in claim 1. Furthermore it is an inherent feature of Clare to aggregate the data to be transmitted to a user to conserve energy by reducing the amount of packets and saving bandwidth. Clare does not disclose the message packets include decoy packets wherein information to be transferred is impressed on random message packets to provide communication privacy. Makansi discloses message packets include decoy packets wherein information to be transferred is impressed on random message packets to provide communication privacy on a network (e.g. abstract). It would be obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Makansi with Clare to provide messages to be transmitted in ways such that potential

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adversaries are given access to a relatively little amount of information as supported by Makansi (p. 1 ¶ 8).

Conclusion

- 54. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 55. Markwell et al. (USPN 6,078,269) discloses battery powered RF-interconnected detector sensor system.
- 56. Crain (USPN 4,962,473) discloses emergency action systems including console and security monitoring apparatus.
- 57. Yach (USPN 6,341,288) discloses a database system methodology for accessing database from portable devices.
- Nova et al. (US 2002/0181501) discloses system and method for machine-to-machine communication.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph E. Avellino whose telephone number is (703) 305-7855. The examiner can normally be reached on Monday-Friday 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (703) 308-5221. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JEA May 20, 2004

DAYAD WILEY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100